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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,243	07/15/2003	Hans Jacobsen	JACO0002	8919	
7590 07/20/2007 LAW OFFICES OF RONALD M. ANDERSON			EXAM	EXAMINER	
Suite 507 600-108th Avenue N.E. Bellevue, WA 98004			SUHOL, DMITRY		
			ART UNIT	PAPER NUMBER	
			3725		
			MAIL DATE	DELIVERY MODE	
			07/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No. Applicant(s)				
		10/620,243	JACOBSEN, HANS			
		Examiner	Art Unit			
<u>, </u>		Dmitry Suhol	3725			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the d	correspondence address	•		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from the course the application to become ABANDONE	N. nely filed the mailing date of this communication. (D. (35 U.S.C. § 133).			
Status						
1) 🂢	Responsive to communication(s) filed on 22 Fe	ebruary 2007				
2a)□		action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E					
Dispositi	ion of Claims					
		application				
	Claim(s) <u>1-36 and 47-52</u> is/are pending in the application.					
	4a) Of the above claim(s) <u>12,14,15,17-24,31,33 and 35</u> is/are withdrawn from consideration. Claim(s) <u>48</u> is/are allowed.					
·	☑ Claim(s) <u>40</u> is/are allowed. ☑ Claim(s) <u>1-10,13,16,25-30,32,34,36,47 and 49-52</u> is/are rejected.					
	☑ Claim(s) <u>1-10,15,16,25-56,52,54,56,47 and 49-52</u> Is/are rejected. ☑ Claim(s) <u>11</u> is/are objected to.					
	Claim(s) are subject to restriction and/o	r election requirement				
	ion Papers					
	•					
	The specification is objected to by the Examine					
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the					
11	Replacement drawing sheet(s) including the correct					
<u> </u>	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents					
	3. Copies of the certified copies of the prior		ed in this National Stage			
	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •				
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachmen	t/e)					
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) D Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application			
	rademark Office	<u> </u>				

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DETAILED ACTION

Election/Restrictions

Claims 1 and 25 are *NOT* generic as they do not encompass features common to all presented species. Furthermore applicants have amended the claims to include limitations drawn to non-elected subject matter (see section ii), therefore such subject matter has NOT been examined and should be REMOVED from the claim as it is drawn to a non-elected invention in non-generic claim.

Claims 48, 49, 50 and 51 have been amended as to read on the elected species and have therefore been examined. Claims 12, 14-15, 17-24, 31, 33, 35 remain withdrawn by the examiner as being directed to a non-elected invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6, 13, 16, 25-30, 32, 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the Markush terminology used in the claim is improper due to the phrase "consisting essentially of" and renders the claim indefinite.

Regarding claim 30, it is unclear as to the number of hinge assemblies being claimed since the parent claim states "a hinge assembly disposed at each end" thus

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implying that there may be a single assembly that is positioned at both ends, while claim 30 states "each hinge assembly" thereby implying that there is more than one such assembly.

Regarding claim 34, there is no antecedent basis for "said means".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8-9 and 47, 49, 50-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Kimura et al '334. Kimura discloses a bending die containing all of the claimed elements including, a work support/die (21) where each component is comprised of a sector gears (25) located on the ends of the work supports (figure 3) which in turn mesh with a linear racks (35) attached to the frame (figure 3, 4b, 4c). The frame member having a first section and second section (31) which is configured in a U-shaped (through member 34) and being adjustable through wedges (33).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5-6, 8-10, 13, 16, 25-26, 29-30, 32, 34, 36, 47, 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi et al '766 in view of Kimura et al '334. Takahashi discloses a bending die for sheet metal containing most of the claimed elements including, a first and second movable components (16, 18, 26, 28) having a planar work surface (surface top) each having an adjacent inner edges with a substantially fixed separation between the two regardless of rotational angular displacement (figures 5A-5C). A hinge assembly as required by claims 6, 29 is read onto the hinge between members 16 and 18 as it is present at both ends of the bending die. A resisting element as required by claims 13 and 34 is shown as hydraulic chamber 50 and associated parts. Limitations of claim 32 are shown in figure 2.

Kimura is relied upon to teach that it is known to provide movable components in a bending where each component is comprised of a sector gears (25) located on the ends of the work supports (figure 3) which in turn mesh with a linear racks (35) attached to the frame (figure 3, 4b, 4c). Therefore it would have been obvious to one having ordinary skill in the art, at the time of the claimed invention, to have provided sector gearing meshing with linear racks in place of members 26 and 28 on frame member 12, as taught by Kimura, for the purpose of providing a bending die with improved product accuracy at a relatively low production cost. With respect to claims 47, 49, 8 and 9, the claimed hinge assembly is considered to be encompassed by Takahashi's hinge (holding the work supports in operative connection) and sector gearing along with the linear rack of Kimura as incorporated into Takahashi for the reasons set forth above.

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Claims 1, 2, 4, 25, 50-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glud '841 in view of Kimura et al '334. Glud discloses a die for being sheet metal containing most of the claim elements including, a first and second movable components (arms 7, 8) having a working surface (read onto surfaces 13, 14) with inner edges (central portion of inner edges 17, 18), a frame (1, 3, 4), where it is considered that the separation between edges 17 and 18 encompasses the phrase "substantially fixed separation". A separation gap as required by claim 2 is shown in figure 2, while the adjustability of the device is encompassed by wedge members 6.

Kimura is relied upon to teach that it is known to provide movable components in a bending where each component is comprised of a sector gears (25) located on the ends of the work supports (figure 3) which in turn mesh with a linear racks (35) attached to the frame (figure 3, 4b, 4c). Therefore it would have been obvious to one having ordinary skill in the art, at the time of the claimed invention, to have provided sector gearing meshing with linear racks in place of members 4 and 9 on the frame member, as taught by Kimura, for the purpose of providing a bending die with improved product accuracy at a relatively low production cost.

Claims 7, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi et al '766 and Kimura et al '334, as stated above, and further in view of Murai '385. Murai is relied upon to teach that it is known to provide a bending die like that of Takahashi with a spring (12) for the purpose of returning the working surfaces to their

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original positions. Therefore it would have been obvious to incorporate a spring in the device of Takahashi for the reasons as taught by Murai.

Allowable Subject Matter

Claim 11 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 48 is allowed.

Response to Arguments

Applicant's arguments with respect to claims 1-36, 47-52 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Suhol whose telephone number is 571-272-4430. The examiner can normally be reached on Mon - Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dmitry Suhol/ Primary Examiner Art Unit 3725

ds